

**FIG. 1**

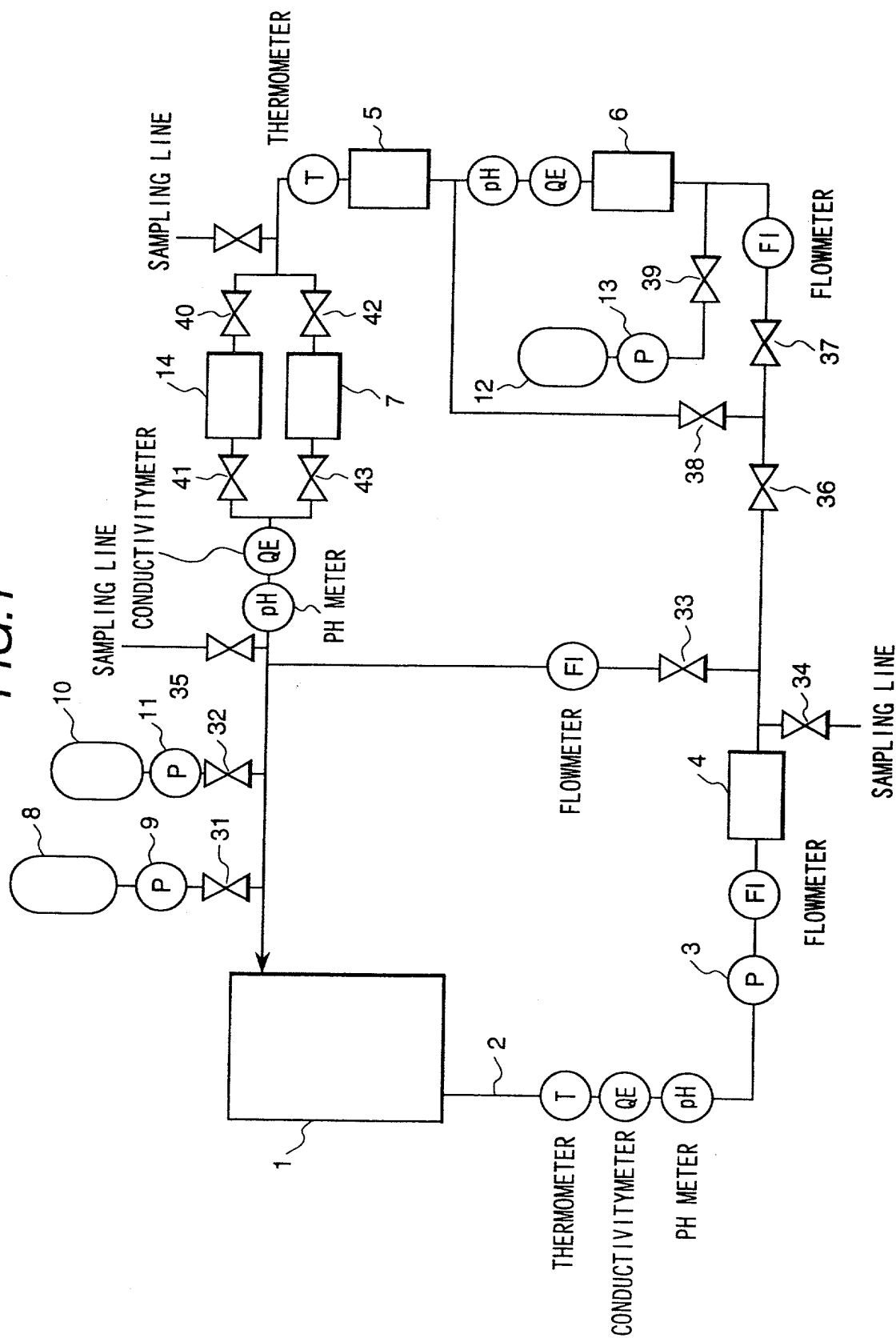


FIG.2

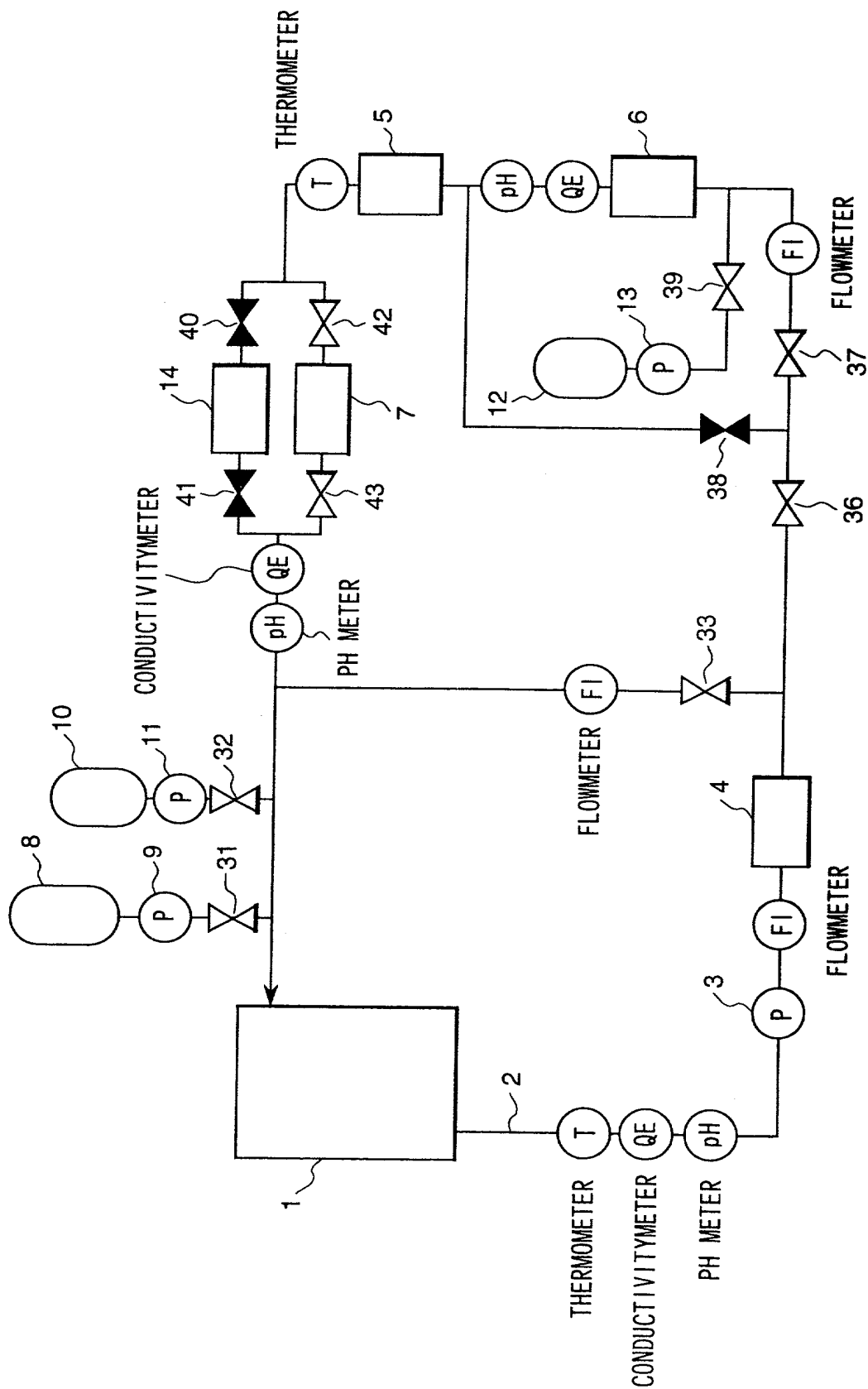




FIG.4

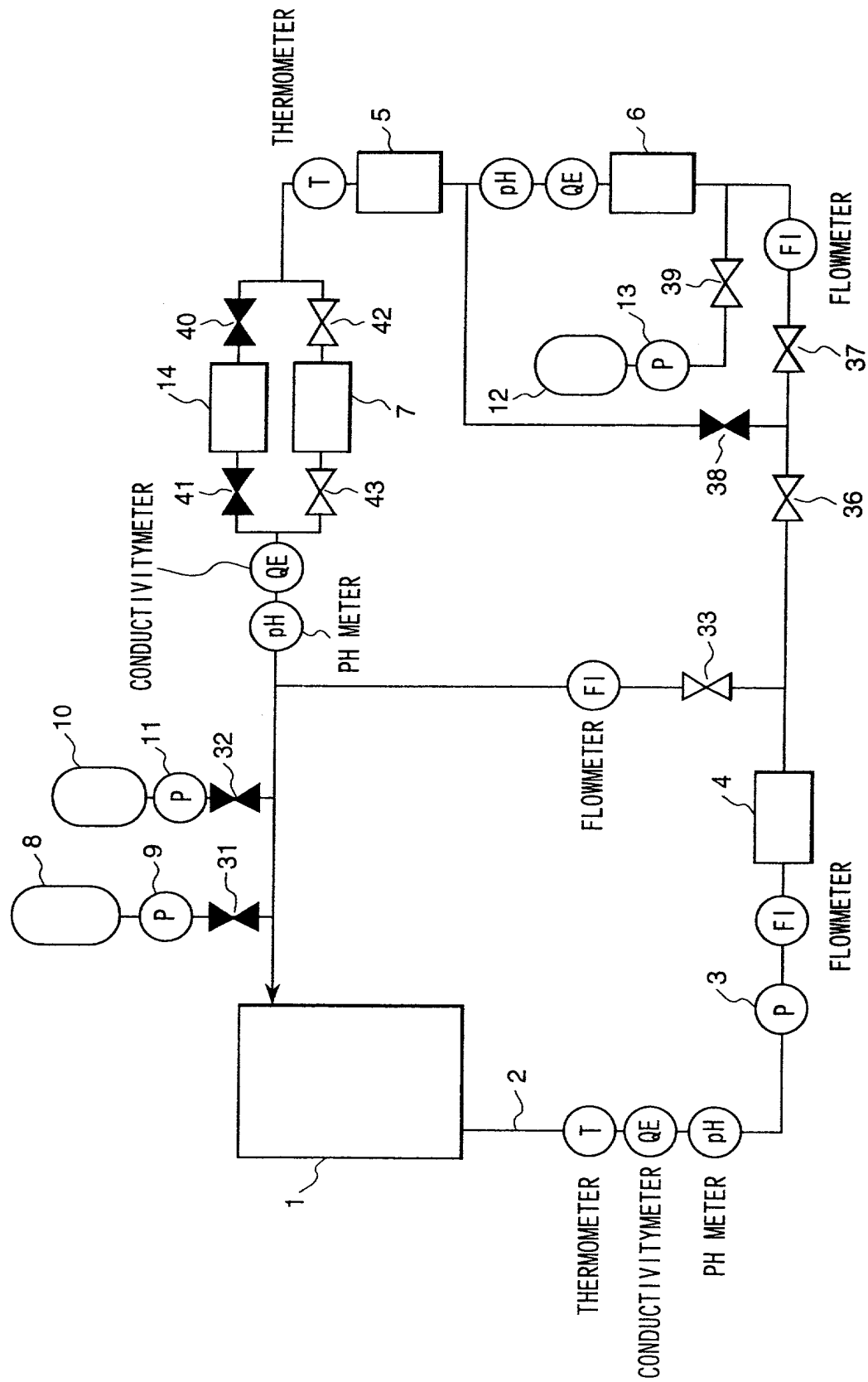
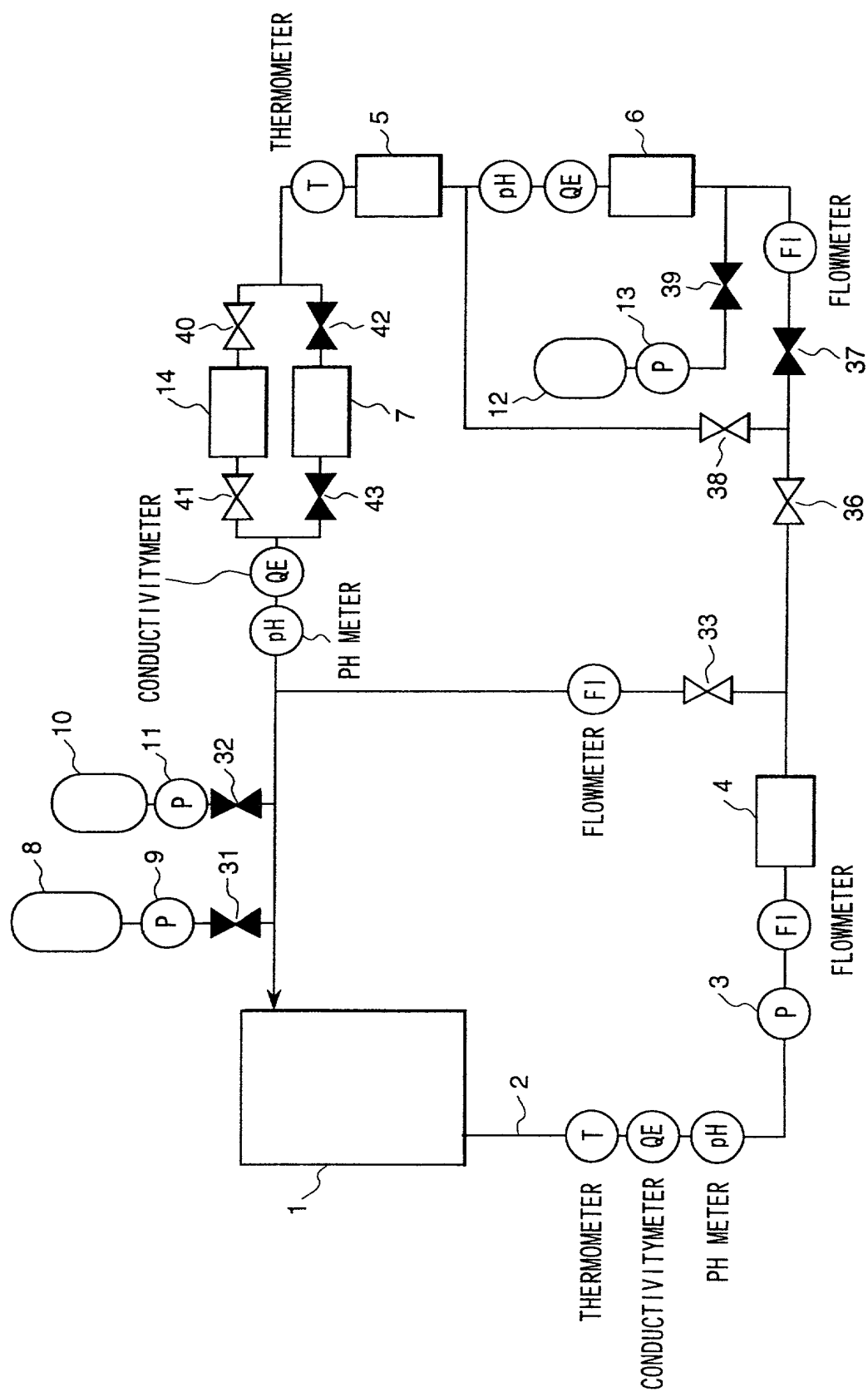


FIG. 5



**FIG. 6**

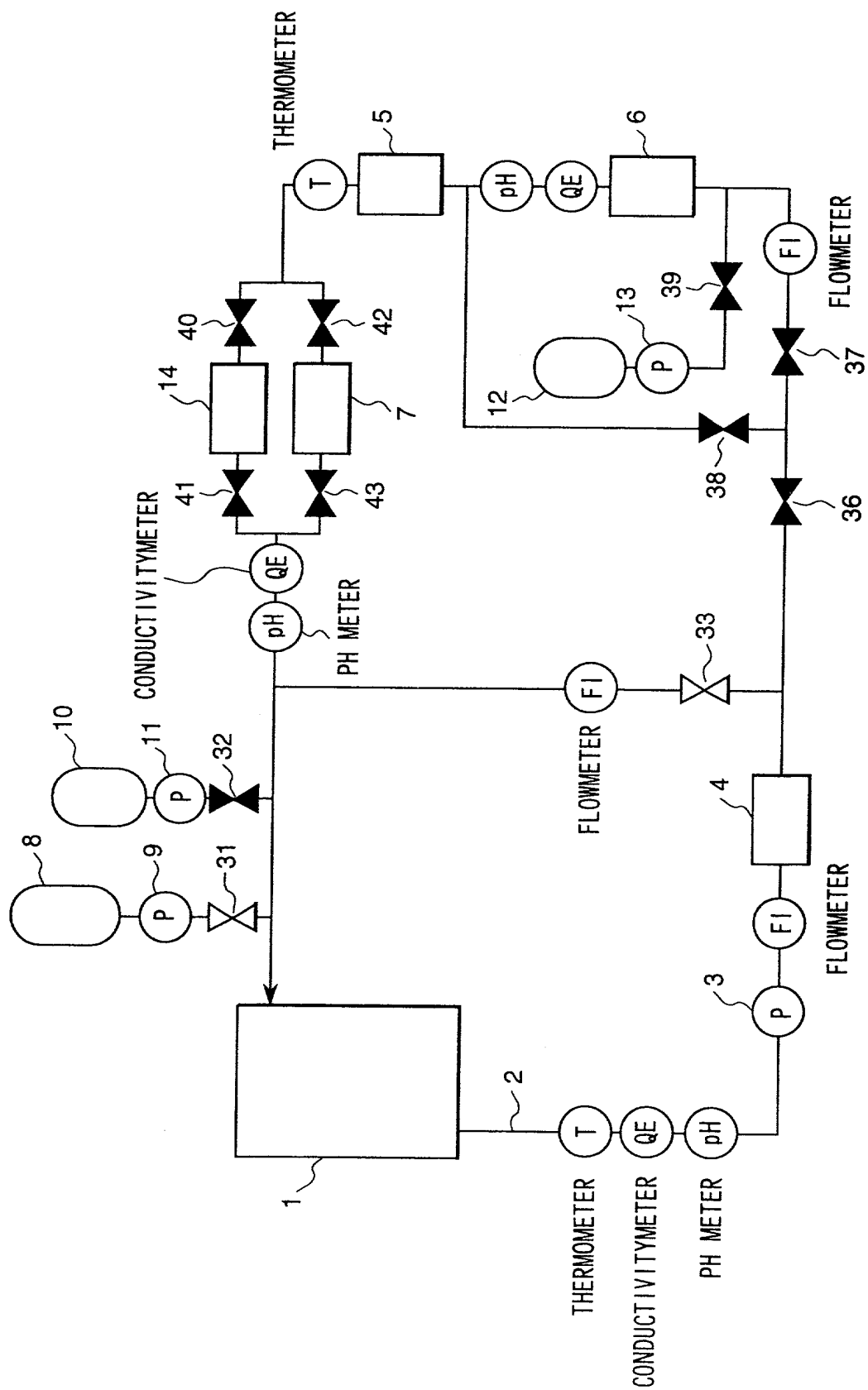


FIG.7A

	1st CYCLE	2nd CYCLE
HEAT-UP		
MAIN PROCESS	<div>REDUCING</div> <div>DECOMP. RED. DECONT. AGENT.</div> <div>CLEAN-ING</div>	<div>OXIDIZING</div> <div>DECOMP. OXIDIZ. AGENT</div> <div>REDUCING</div> <div>DECOMP. RED. DECONT. AGENT</div> <div>FINAL CLEAN</div>
OXALIC ACID INJ.	△	△
HYDRAZINE INJ.	△ CONTIN. INJ.	△ CONTIN. INJ.
KMnO4 INJ.	△	
H2O2 INJ.		
CATALYST DECOMP. RESIN COLUMN	<div>CONTINUOUS INJECT AMOUNT NECESSARY FOR DECOMPOSING HYDRAZINE</div> <div>CONTINUOUS INJECT AMOUNT NECESSARY FOR DECOMPOSING OXALIC ACID &amp; HYDRAZINE</div> <div>WATER FLOW</div> <div>CATION RESIN</div>	<div>CONTINUOUS INJECT AMOUNT NECESSARY FOR DECOMPOSING OXALIC ACID &amp; HYDRAZINE</div> <div>WATER FLOW</div> <div>CATION RESIN</div>
	MIXED-BED	MIXED-BED

FIG.7B

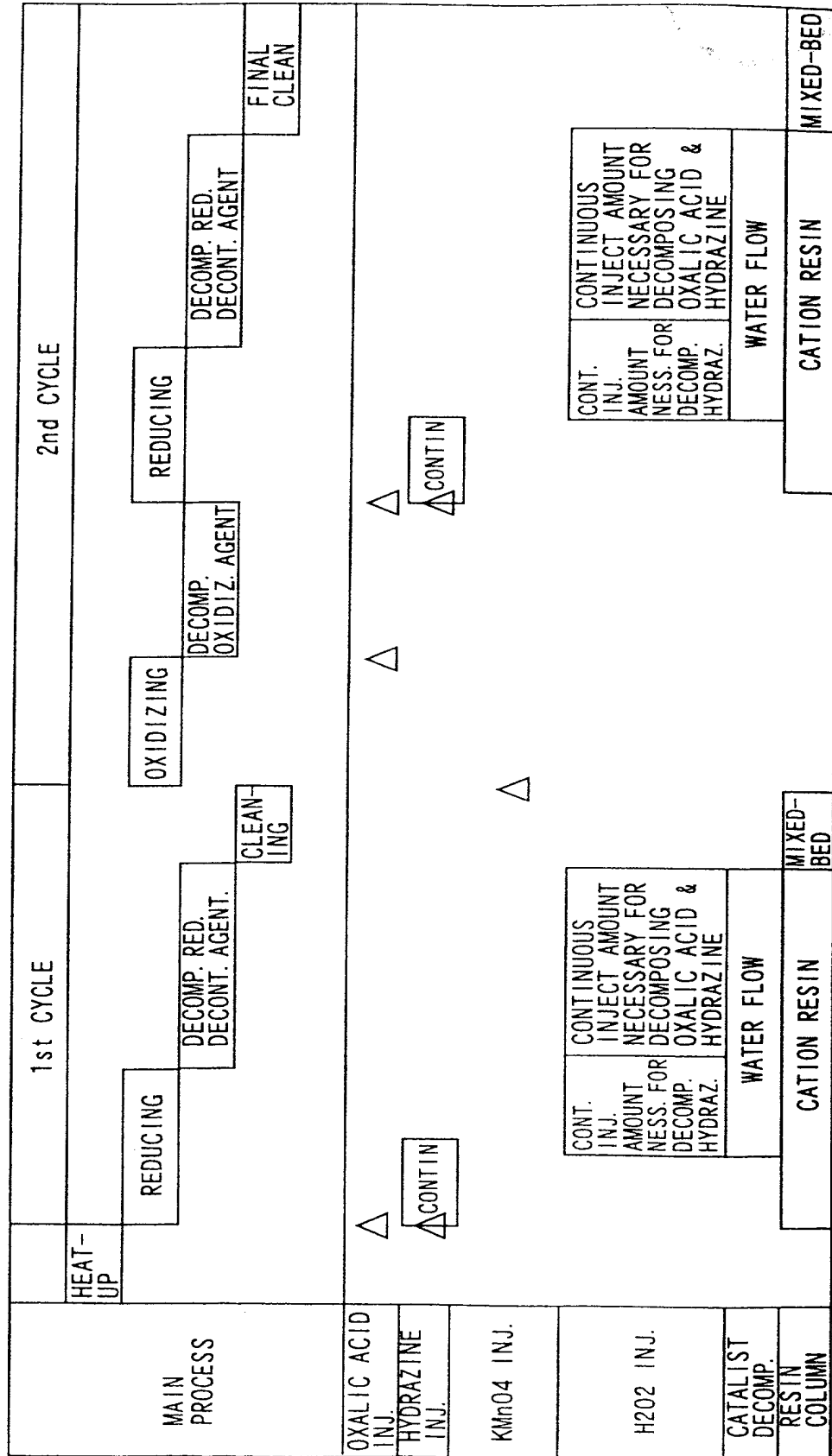




FIG.7C

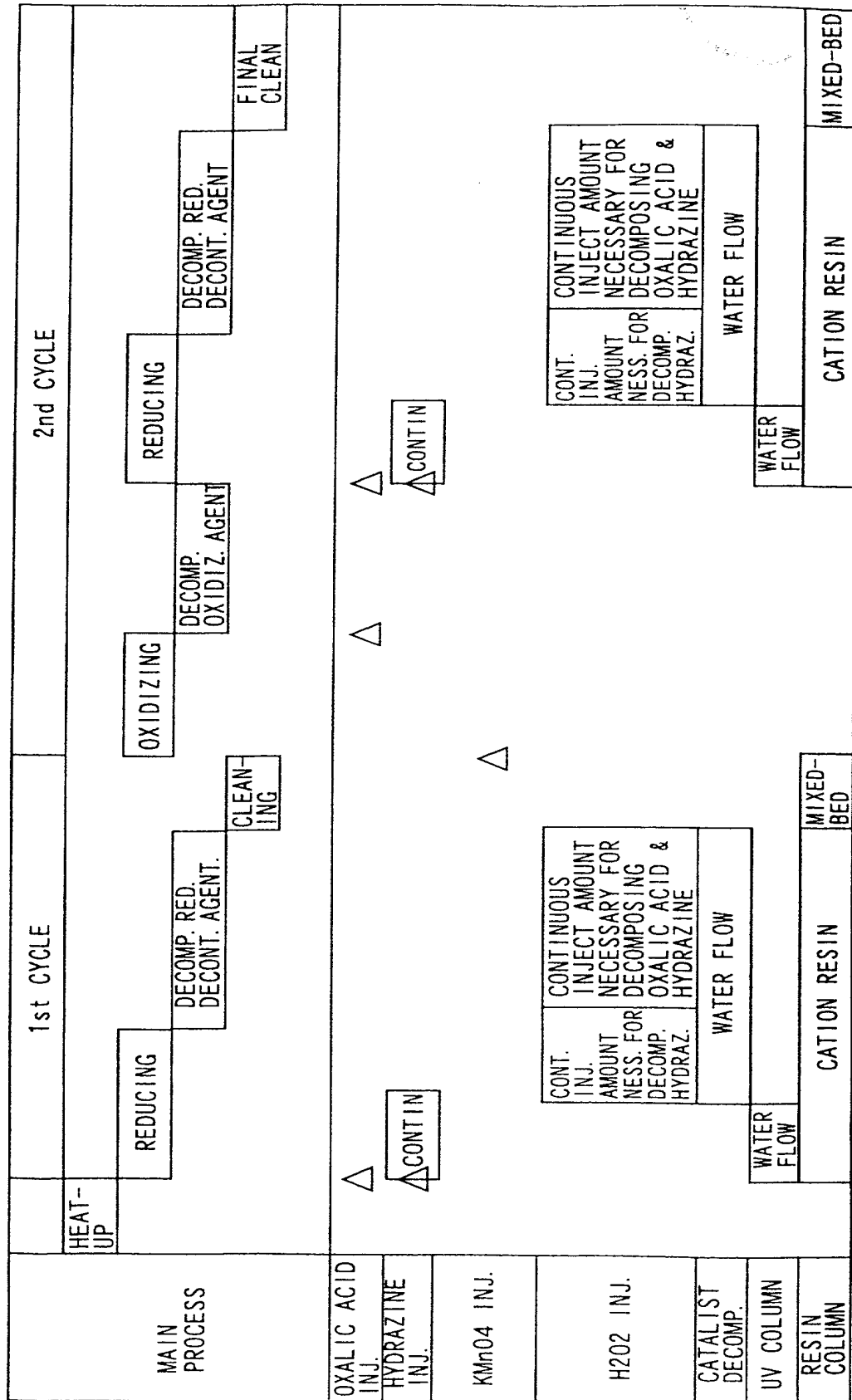
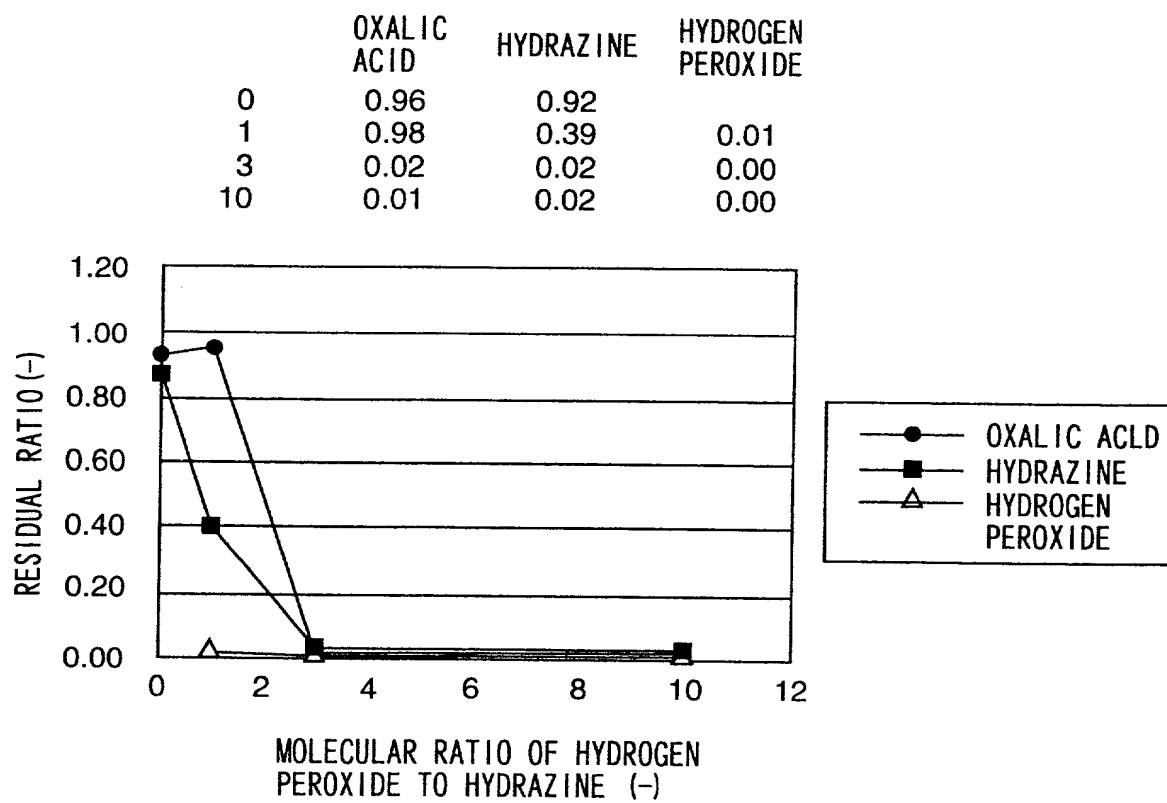


FIG.8



The diagram illustrates a water treatment process with several parallel sampling lines for monitoring. The main process flow starts with a large rectangular tank (1) at the bottom. From this tank, a line leads to a series of monitoring instruments: a THERMOMETER (2), a CONDUCTIVITY-METER (3), a PH METER (4), and a FLOWMETER (5). This line then passes through a valve (6) and a rectangular unit (7) before reaching a valve (8). From valve (8), the flow splits into three parallel sampling lines, each leading to a set of monitoring instruments:

- Top Sampling Line:** Passes through a valve (9), a FLOWMETER (10), a PH METER (11), a CONDUCTIVITY-METER (12), and a THERMOMETER (13) before reaching a valve (14).
- Middle Sampling Line:** Passes through a valve (15), a FLOWMETER (16), a PH METER (17), a CONDUCTIVITY-METER (18), and a THERMOMETER (19) before reaching a valve (20).
- Bottom Sampling Line:** Passes through a valve (21), a FLOWMETER (22), a PH METER (23), a CONDUCTIVITY-METER (24), and a THERMOMETER (25) before reaching a valve (26).

Each of these three sampling lines then passes through a rectangular unit (27, 28, and 29 respectively) and a valve (30, 31, and 32 respectively) before entering a large rectangular tank (33) at the top. The tank (33) has a VENT (34) on its side. The tank is connected to a FLOWMETER (35) and a PH METER (36). The output from the tank (33) passes through a valve (37) and a FLOWMETER (38) before entering a large rectangular tank (39) at the bottom. The tank (39) has a VENT (40) on its side. The output from the tank (39) passes through a valve (41) and a FLOWMETER (42) before entering a large rectangular tank (43) at the top. The tank (43) has a VENT (44) on its side. The output from the tank (43) passes through a valve (45) and a FLOWMETER (46) before entering a large rectangular tank (47) at the bottom. The tank (47) has a VENT (48) on its side. The output from the tank (47) passes through a valve (49) and a FLOWMETER (50) before entering a large rectangular tank (51) at the top. The tank (51) has a VENT (52) on its side. The output from the tank (51) passes through a valve (53) and a FLOWMETER (54) before entering a large rectangular tank (55) at the bottom. The tank (55) has a VENT (56) on its side. The output from the tank (55) passes through a valve (57) and a FLOWMETER (58) before entering a large rectangular tank (59) at the top. The tank (59) has a VENT (60) on its side. The output from the tank (59) passes through a valve (61) and a FLOWMETER (62) before entering a large rectangular tank (63) at the bottom. The tank (63) has a VENT (64) on its side. The output from the tank (63) passes through a valve (65) and a FLOWMETER (66) before entering a large rectangular tank (67) at the top. The tank (67) has a VENT (68) on its side. The output from the tank (67) passes through a valve (69) and a FLOWMETER (70) before entering a large rectangular tank (71) at the bottom. The tank (71) has a VENT (72) on its side. The output from the tank (71) passes through a valve (73) and a FLOWMETER (74) before entering a large rectangular tank (75) at the top. The tank (75) has a VENT (76) on its side. The output from the tank (75) passes through a valve (77) and a FLOWMETER (78) before entering a large rectangular tank (79) at the bottom. The tank (79) has a VENT (80) on its side. The output from the tank (79) passes through a valve (81) and a FLOWMETER (82) before entering a large rectangular tank (83) at the top. The tank (83) has a VENT (84) on its side. The output from the tank (83) passes through a valve (85) and a FLOWMETER (86) before entering a large rectangular tank (87) at the bottom. The tank (87) has a VENT (88) on its side. The output from the tank (87) passes through a valve (89) and a FLOWMETER (90) before entering a large rectangular tank (91) at the top. The tank (91) has a VENT (92) on its side. The output from the tank (91) passes through a valve (93) and a FLOWMETER (94) before entering a large rectangular tank (95) at the bottom. The tank (95) has a VENT (96) on its side. The output from the tank (95) passes through a valve (97) and a FLOWMETER (98) before entering a large rectangular tank (99) at the top. The tank (99) has a VENT (100) on its side. The output from the tank (99) passes through a valve (101) and a FLOWMETER (102) before entering a large rectangular tank (103) at the bottom. The tank (103) has a VENT (104) on its side. The output from the tank (103) passes through a valve (105) and a FLOWMETER (106) before entering a large rectangular tank (107) at the top. The tank (107) has a VENT (108) on its side. The output from the tank (107) passes through a valve (109) and a FLOWMETER (110) before entering a large rectangular tank (111) at the bottom. The tank (111) has a VENT (112) on its side. The output from the tank (111) passes through a valve (113) and a FLOWMETER (114) before entering a large rectangular tank (115) at the top. The tank (115) has a VENT (116) on its side. The output from the tank (115) passes through a valve (117) and a FLOWMETER (118) before entering a large rectangular tank (119) at the bottom. The tank (119) has a VENT (120) on its side. The output from the tank (119) passes through a valve (121) and a FLOWMETER (122) before entering a large rectangular tank (123) at the top. The tank (123) has a VENT (124) on its side. The output from the tank (123) passes through a valve (125) and a FLOWMETER (126) before entering a large rectangular tank (127) at the bottom. The tank (127) has a VENT (128) on its side. The output from the tank (127) passes through a valve (129) and a FLOWMETER (130) before entering a large rectangular tank (131) at the top. The tank (131) has a VENT (132) on its side. The output from the tank (131) passes through a valve (133) and a FLOWMETER (134) before entering a large rectangular tank (135) at the bottom. The tank (135) has a VENT (136) on its side. The output from the tank (135) passes through a valve (137) and a FLOWMETER (138) before entering a large rectangular tank (139) at the top. The tank (139) has a VENT (140) on its side. The output from the tank (139) passes through a valve (141) and a FLOWMETER (142) before entering a large rectangular tank (143) at the bottom. The tank (143) has a VENT (144) on its side. The output from the tank (143) passes through a valve (145) and a FLOWMETER (146) before entering a large rectangular tank (147) at the top. The tank (147) has a VENT (148) on its side. The output from the tank (147) passes through a valve (149) and a FLOWMETER (150) before entering a large rectangular tank (151) at the bottom. The tank (151) has a VENT (152) on its side. The output from the tank (151) passes through a valve (153) and a FLOWMETER (154) before entering a large rectangular tank (155) at the top. The tank (155) has a VENT (156) on its side. The output from the tank (155) passes through a valve (157) and a FLOWMETER (158) before entering a large rectangular tank (159) at the bottom. The tank (159) has a VENT (160) on its side. The output from the tank (159) passes through a valve (161) and a FLOWMETER (162) before entering a large rectangular tank (163) at the top. The tank (163) has a VENT (164) on its side. The output from the tank (163) passes through a valve (165) and a FLOWMETER (166) before entering a large rectangular tank (167) at the bottom. The tank (167) has a VENT (168) on its side. The output from the tank (167) passes through a valve (169) and a FLOWMETER (170) before entering a large rectangular tank (171) at the top. The tank (171) has a VENT (172) on its side. The output from the tank (171) passes through a valve (173) and a FLOWMETER (174) before entering a large rectangular tank (175) at the bottom. The tank (175) has a VENT (176) on its side. The output from the tank (175) passes through a valve (177) and a FLOWMETER (178) before entering a large rectangular tank (179) at the top. The tank (179) has a VENT (180) on its side. The output from the tank (179) passes through a valve (181) and a FLOWMETER (182) before entering a large rectangular tank (183) at the bottom. The tank (183) has a VENT (184) on its side. The output from the tank (183) passes through a valve (185) and a FLOWMETER (186) before entering a large rectangular tank (187) at the top. The tank (187) has a VENT (188) on its side. The output from the tank (187) passes through a valve (189) and a FLOWMETER (190) before entering a large rectangular tank (191) at the bottom. The tank (191) has a VENT (192) on its side. The output from the tank (191) passes through a valve (193) and a FLOWMETER (194) before entering a large rectangular tank (195) at the top. The tank (195) has a VENT (196) on its side. The output from the tank (195) passes through a valve (197) and a FLOWMETER (198) before entering a large rectangular tank (199) at the bottom. The tank (199) has a VENT (200) on its side. The output from the tank (199) passes through a valve (201) and a FLOWMETER (202) before entering a large rectangular tank (203) at the top. The tank (203) has a VENT (204) on its side. The output from the tank (203) passes through a valve (205) and a FLOWMETER (206) before entering a large rectangular tank (207) at the bottom. The tank (207) has a VENT (208) on its side. The output from the tank (207) passes through a valve (209) and a FLOWMETER (210) before entering a large rectangular tank (211) at the top. The tank (211) has a VENT (212) on its side. The output from the tank (211) passes through a valve (213) and a FLOWMETER (214) before entering a large rectangular tank (215) at the bottom. The tank (215) has a VENT (216) on its side. The output from the tank (215) passes through a valve (217) and a FLOWMETER (218) before entering a large rectangular tank (219) at the top. The tank (219) has a VENT (220) on its side. The output from the tank (219) passes through a valve (221) and a FLOWMETER (222) before entering a large rectangular tank (223) at the bottom. The tank (223) has a VENT (224) on its side. The output from the tank (223) passes through a valve (225) and a FLOWMETER (226) before entering a large rectangular tank (227) at the top. The tank (227) has a VENT (228) on its side. The output from the tank (227) passes through a valve (229) and a FLOWMETER (230) before entering a large rectangular tank (231) at the bottom. The tank (231) has a VENT (232) on its side. The output from the tank (231) passes through a valve (233) and a FLOWMETER (234) before entering a large rectangular tank (235) at the top. The tank (235) has a VENT (236) on its side. The output from the tank (235) passes through a valve (237) and a FLOWMETER (238) before entering a large rectangular tank (239) at the bottom. The tank (239) has a VENT (240) on its side. The output from the tank (239) passes through a valve (241) and a FLOWMETER (242) before entering a large rectangular tank (243) at the top. The tank (243) has a VENT (244) on its side. The output from the tank (243) passes through a valve (245) and a FLOWMETER (246) before entering a large rectangular tank (247) at the bottom. The tank (247) has a VENT (248) on its side. The output from the tank (247) passes through a valve (249) and a FLOWMETER (250) before entering a large rectangular tank (251) at the top. The tank (251) has a VENT (252) on its side. The output from the tank (251) passes through a valve (253) and a FLOWMETER (254) before entering a large rectangular tank (255) at the bottom. The tank (255) has a VENT (256) on its side. The output from the tank (255) passes through a valve (257) and a FLOWMETER (258) before entering a large rectangular tank (259) at the top. The tank (259) has a VENT (260) on its side. The output from the tank (259) passes through a valve (261) and a FLOWMETER (262) before entering a large rectangular tank (263) at the bottom. The tank (263) has a VENT (264) on its side. The output from the tank (263) passes through a valve (265) and a FLOWMETER

FIG.10

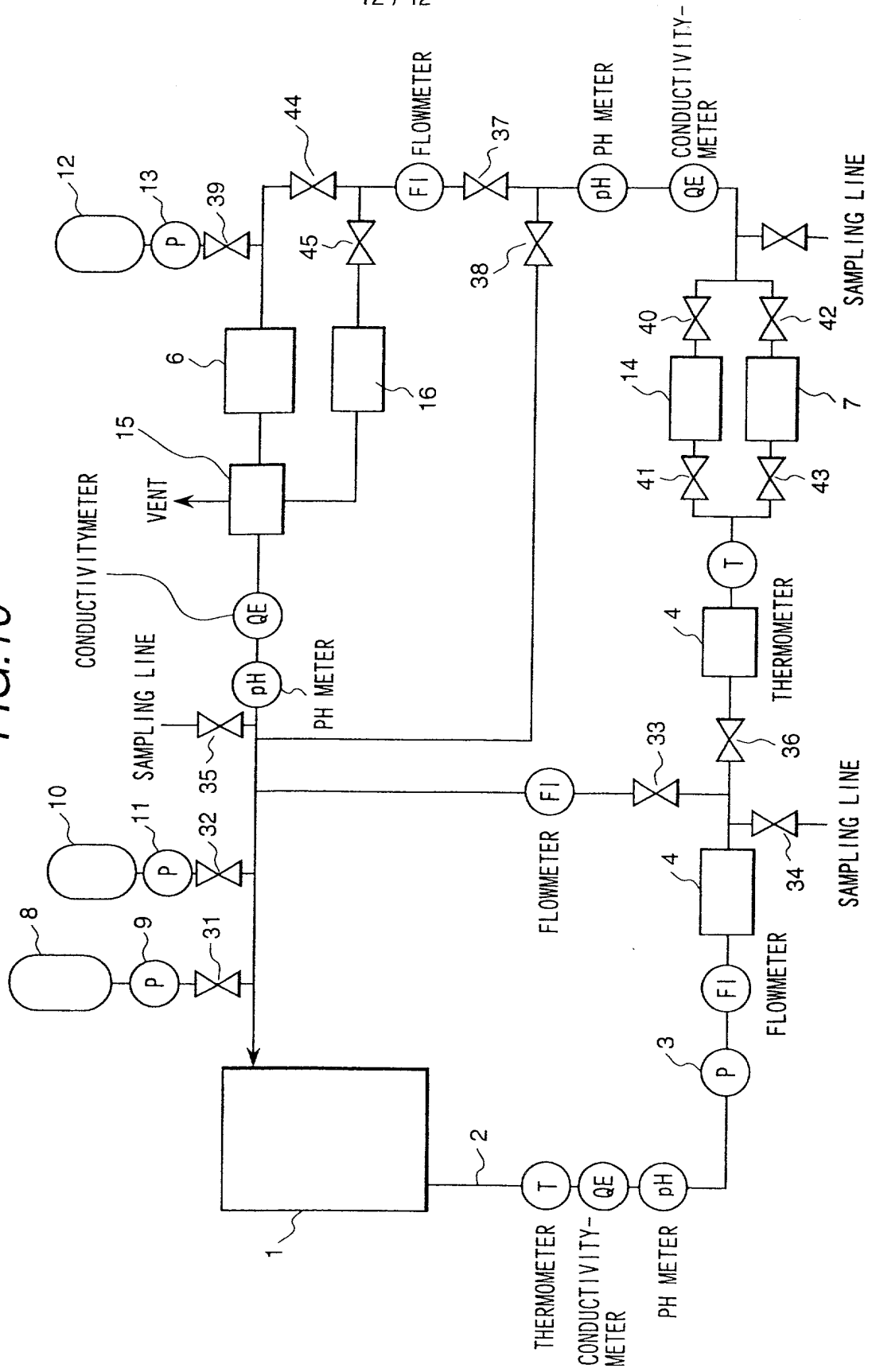


FIG. 11A

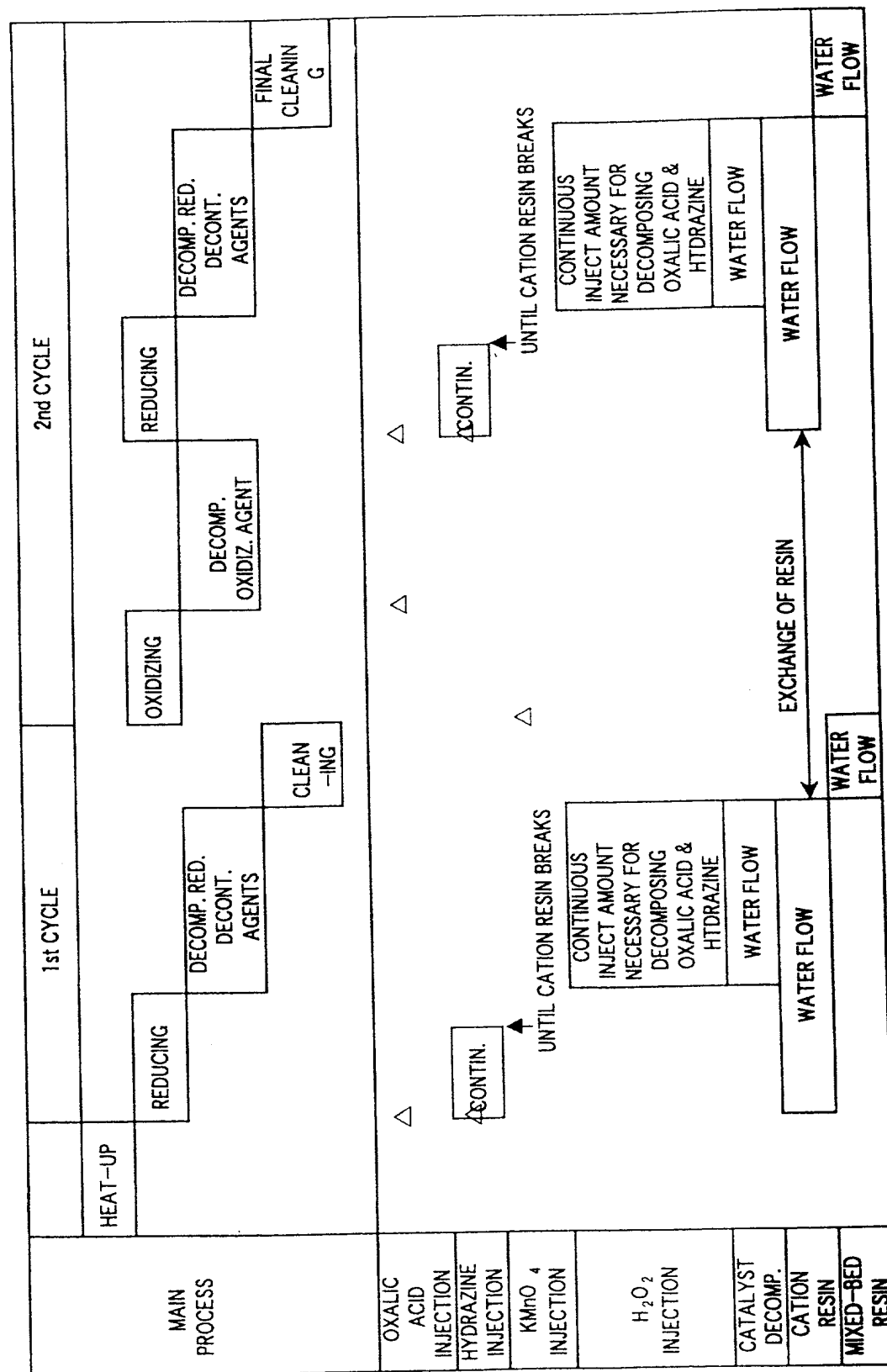


FIG. 11B

